

TABLE I

| cDNA | Embryo Phase | Clone | Nucleotide Sequence |
|--------------|--------------|---------|---|
| SEQ ID NO:79 | Middle | LPS-096 | GGTGCGATCCTAGAATTGCATCTGTTGCCGTTGCTACTCCCTTTGAATTAGAAGCC TTCCTTGCCACCTGGTCTTGAAGCATCCTTTTAGTCTTATTATCCTTGGCATTATTC CTAGAATCCTCTTGCTCCTTAACATCCTATAAGGTCATCTCATGCCAAGAGATCTTG ACAAATTTGGAAGAATCTGCCAATTGCTCCCGCCCTCCTTAAGTGAAGTTGACTCT CTAAGTTGCTGAACCTTCTGAGCTACCTGTTCTTTGTTTTCTATCATTGCTTTTCTTT GTGCCATCACTCGGATCGCACC |
| SEQ ID NO:80 | Middle | LPZ-001 | ATCTAGATCATCGATCTTGTCCTAAATTTAACTAGTGAATAGTTTTAAAAAAGCAA CTAGCAGAAGAGAACCTAACCACTGACAAATTGCAAACTCTAGAACACTATTCAT CATTTTTTGGGATTACGCTGGACCCACAAGAACCCTTGAGCTGAACCTTCTTTTC GTTCTCCCTCCTTTTGATCGCACCATCTAGACCATCGATCTTGTCCTAAATTTAAC TAGTGAATAGTTTTAAAAAAGCAACTAGCAGAAGAGAACTAACCACTGACAAAT GCAAACTCTAGAACACTATTCATCATTTTTTGGGATTACGCTGGACCCACAAGAA CTCTTGAGCTGAATTTCTTTTCGTCTCCTCTTTTGATTGGACATCNAATCCTGCA GCCGGGGATTCAATTCTTAACGGCGCNCGCGNGGACTCCATNCCCCATATGATC TTTTCATCTGGCGCNTTAACTCTGAAGGGAAACCGGNTTNCCTTATCCCTGGA NATCCCTTCC |
| SEQ ID NO:81 | Middle | LPZ-002 | GTGGAGTGTAAGGTCAACGTGCCATCCGGGTACAACTATTGTAGAAAAATGGC AAAGTTAGGTCTGAAATATCCATTTGGCCTGCTCTAGTTGTACAGTACATGATTTT GCACTCGCACACAATGGACTATAATTATTTCTGGCAAAAAAAAAAAAA |
| SEQ ID NO:82 | Late | LPZ-003 | GGTGCGATCCAGGACATGAGGCCGAGTTTGCCATTGTGATATGATTGAGGAAGTC CAGTCCTAAAATTAGGTTTATCTTGATGTTTGACAAGAGATATAGAGGGGCATGATG ATTCATTGATCTGTTTGCAGATCTGTAAGTCAACCATTTCTAATGACATAATAGCGC TATTGTTTGGGTTTCGTGTGATGACATAATAAATTGATTTAATTTAATAACATCTGTTA ATGCAATGGCTGTAGCTGCATCATCACCGTATCCATCGAATGTTCCATTTTTCCAAA TGTTTGTTCCTAAACAGAACACCAAAATGTCCCTGCGTTTGTNTGAAAAATAT TGGGCCCNTACTATACTATAATNTTNGGCATACTATACTATAATGTTTCTCCCATTC CCCCCAAATGANTCCTATACATCCTGGCCGNCCTTACACTCCTGACNGGAAACCC GGCTTNCCTAATCCCTGGNCNANCCCTTC |
| SEQ ID NO:83 | Late | LPZ-004 | GGTGCGATCCGACTGTGATATGTGACTGGTGAACGAGAGATCCTTCTTATGAATTA ATCTGGTATCTTTATGCGAAAGCTTTTAGGGTTGCTACATGCTCTCCTCTTTGTAT GAATTTCCATTCTAATATCAGTCTCTGTGAT |
| SEQ ID NO:84 | M,L | LPZ-005 | GGGGAGTGTAAGGGATAAGTGGTAAGCCAGGTTTCCAGTCAGAAGTGTAAGGC GGCCAGTGATGTAATAGATTATATAGGGGAATGGAGTCACCGGGGTGCGCCGTT TTAGAATAGTGGATCCCCGGCTGCAGGATTTGATGGTGGCAGTCTGCCCTGATAA TTTGGTTGCAATGGAATGCAAGTATTAGGTGCGAGATGTAAAGCCCGCCCGGAG CGGTGCATGAAGTACTGCAATATTTGTTGTAGTAAATGTGCTGGTTGTGTTCCAG CGGTCACTATGGCAACAAGGACGAGTGCCCTGCTACAGAGATATGAAGTCCGCA GCCGGCAAGCCCAAGTGTCCCTGATCTTAGCACTTCAGTCCAGTCGCTCACTTCTT TTATTCCTTTTTTTTATAAAAGTGACGAGGCCGTTTTCTTGACTTGGTGGCCATAT GTAGAGCGGTGGCTACTTCTCCTGTGTTAGGAAATGTTGCAGTACTAATAATAAGA ACTTCTTTGGCAAAAAAAAAAAAA |
| SEQ ID NO:85 | M,L | LPZ-006 | GGGTTTCCTTAAGAGTTAAAGGCGCATGATGTATAGAATCATATAGGGGATGGATT CCCCCGGGGGGCTTTTCAAGATAGGGATTCCCGGCTGCAGGATTGATAGTGCGA TCCAAGACACAGTGGAGTACCACAATGGGGATCTGGCCAGTCTTTGTGGCTATTC ACTGCAGCTGTATTAACAGGAAGCCGCAATGGCCAGAAGGCCATTGAACCTTGC TGAGAGCAGACTATCTAAGGATGGCTGGCCTGAATATTATGATGGGAAGCTTGGAC GATATATTGAAAGCAGTCTCGAAAGTGGCAAACCTGGTCAGTTGCTGGATATCTT GTAGCCAAGATGATGCTTGAAGATCCATCCATTAGGTATGATGATGATTGGAAGA GGACAAAAAGATGAAGCCGTCCTCACTCGATCAGCTTCTTGATAATGTAAATG GGGAAATCCTAACTTTTCAAGGCCACTCTTGAATGTTTTGCACTTCTGTATGACAAA TGAGGCAATTCATAGTACATGTTGTGCAAAAAAAAAAAAA |

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N.W.
WASHINGTON, DC 20005
202-408-4000

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| cDNA | Embryo Phase | Clone | Nucleotide Sequence |
|--------------|--------------|---------|---|
| SEQ ID NO:86 | M,L | LPZ-007 | GGTGCGATCCCAGAGAATATTAGTTCATGTGTTGCTCTCATTCTTCAATATGCAG GGCAACCATTTGAATGAAATTATTCCTTTTGAATTTCAAAAACCTTAATAGGCTAAGT ATCTATCTGGAGCCGATTTTCATTGACGAGTAACCTGTAAGCTGGCCAGCAAAAGC CAACAGATGTTGAGCTCGTTGGAACAGTTGAAGATTGTAATAGAGATGGTGAATA ATCGCGGACGGCTCGGCCAATGGAATATTGTTGCATCATCATCAAGGGGGTATGA ATTCCAAAGAACTTGTGATTGAAATTCCTCAAGCAAAATCTGTGAAATGAAAAATTT ATTGAGACCATTGGGCAAAAAAAAAAAAAA |
| SEQ ID NO:87 | Late | LPZ-008 | GGTGCGATCCAAAGAACACAAGATGGAGTTACCACAATGGAGGATCTTGCCAGT GCTTTTGTGGCTATTCACTGCAGCCTGTATTAACAGGAAGGCCGCAATGGCCA GAAGGGCCATTGAACTTGCTGAGAGCAGACTATCAAGGATGGCTGGCCTGAATAT TATGATGGGAAGCTTGGACGATATATTGAAAGCAGTCTCGAAAGTGGCAACCTG GTCAGTTGCTGGAT |
| SEQ ID NO:88 | Late | LPZ-009 | GGTGCGATCTGTGTGGCTCTGAAACATCCCGGCTCCCTCTGCACTATAATAATCC CAAAATTAAGTGAACCAACAGAAATTTGCTCATATCTCTACAGTTATTGCAGACTGA GCAAAACCTCAAACCTCATGTGACCTCTCAATAGGAGCCCCACGCCAAGATTTGTC CAGCATGTAACACACCTGATCGCCGCCACTGCAAGCACAACCGCTCACAAATATCT TGTCACACCACACTGTTGCGCAAGTTAACAATATTCATGTCTCCAGGAAAGAAATGC CACACTTCCCAACATTCTCTTACTATTATAGAATTCCTTGTGCTATGGAAGAAAT ACATTCCCAACGCAGAACCCCAACGGGGGTTCCCAATANCCCATTTCCCCCTNTC CAANCCNNTNTGAATGCNCCCCATNCCCTATTGNATNNTTAAATCCNGGCGCNTT ANCTGGAAGGNAACCCGNTTCCCN |
| SEQ ID NO:89 | M,L | LPZ-010 | GTTTTCCAGTCAGGACGTGTAACACGACGGCCAGGGATTGTAATACGATTCACTA TAGGCGAATTGGAGTGCATCCGTATAGGTAGTTGGATGATGAACGGGCAAGAA GGCAAAGGAGTACAGTGATGGATCCTGTAATTCCTGTTTCAGAAAACAGAAATCT GCAATATAAGGATGGCTAAGCTTTTCAGCTATGAAATATATGGTGCAGTGGCACT CATATCAGTTGCAGAGTTGTCAATATAACTTTTGTGAATAGGAAAGTTGTCCTCTTT TAGAGTGCAGAAATCCTGCAATATAAGGATGGCTAAGTTTTTCAGCTATATGAAAT ATATGGTGCAGTGGCAAAAAAAAAAAAAA |
| SEQ ID NO:90 | All | LPZ-011 | GGTGCGATCCTACAGAGAGCAGCTTGACGAGGGCCAAAAGGTTAAGGATGAAGAA TGACCTCAGCTAGTAAGGTTTACAGAAGCAGCAGAGGCATCTTAAGTGTCTTTATGT TTTGGCAAAAGTTGTTGCGTCGGTTGTTAATCCAGGATTTTCAGATGTATTTGTAG A |
| SEQ ID NO:91 | Late | LPZ-012 | ATTGTAATACGACTCACTATAGGGCGAATTGGAGGGTCCGATCCTGCGAGACCGA GGGTTTCATTTTCTTTAGACAACGACGTTTCAGTGGCGACCAGAGTTTCCCAATCAC TTCAGCGATTCTATTCTTCGTTGTAATAAAGCTTAAGGAATCCATGCTTTATTCCTT GGAAGGTTTGAATATTTATTTATTGGCAAAAAAAAAAAAAA |
| SEQ ID NO:92 | Late | LPZ-013 | AGGTGACCGTCAAAATGATTGCAGAGGACTTAGAGAGGGGAAAACCGTTCCGATCT GGTGAAGCAATTGGATGAAGCAGCTCTGGAATTGATTCCCGTTTCTGATGATATCG TACGGCTAAGCTCAGCTCTTCAGGCAATTGGCAGAGAATACGATTCTTCAAATGAG ATGACAGATTTTAAGAACTTATAGATGAACATATTTCCAAGCTTGAAGCGGATTCC CCTACGGTCACCT |
| SEQ ID NO:93 | Late | LPZ-015 | AGGTGACCGTAAATACTATGAGAAATGCTTTTCATCAGGCACCGCTGGTAGGTTTT CTTCAAGCTTTTCATTAGGCAAAAGAGGCTCCGTGAGTTGATCGTTAATTCTCTCCT TGAATGGCCATATTGACCAGACACTCTGATTAGAACTGGAATACAACCTGCACATAT AGTCATTCTTATATGATTCATCCTTCTGCACTTCAGCATCCTGCGGCAACTTTCAT CCCGCCATACTGCAGAAAAATTTGACTCTTGATCATGTTGTAGATGAATCTTCA TGAATCTTCTCATCTTGCACTTCTGTCTTTATATCTTTAGGAAATTGCATCTGGTAAA AGTATAAATGCATCTTCACTGGTTGCTTCAGTTTTGTCATGCTCCTGTTCTTCTGTT TACATGTGATCTACCAAATCATCTAATGTATTCTCTCAATGTCTTGTGGACATTCTCC TTCATTCCGAGATTACCAATCATCTACCCGAATAAATGTTGCCCGTCAGCAATGCC GTTTTGGTCC |

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
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1300 I STREET, N.W.
WASHINGTON, DC 20005
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|---------------|--------------|---------|--|
| SEQ ID NO:94 | Late | LPZ-016 | AGGTGACCGTAGTAGGCGTCCAGAGGCTGACAAAATCCAGGCCTGTGCAAATCT GGAAGCCGCATGCAGGGCCGTGGCACCTTACACTTGC GGCCCTTAACAAAGTGGCC CGCGGCACCCACTTCTACCAGTGTGTTTATATTCTTGTGCAGCCAACACCAGAGGT TATGCAGGCGAATGTGCTGGCCAAGCGTTGTTTCGGCTTGTCCGCAAACCTCTC GAGTCTTACATGCCGCATATGAGTCTTGTGTATGGCGATTTGCCTGACGACGAGAA AGAGAAGGCCAAGGTTAAGGCGCAGCTAAATTCGATGAAGTTATCCGCAACACGGA ATTCCAAGTCTCCAGCTTGTGCTTGTACTCGACAGATCTGAAAATAATCCTCACTCA TGCATAAGTGCAAAATGTGATCTTAACCTGCTCTGAAAATTACATAA |
| SEQ ID NO:95 | Late | LPZ-017 | AGGTGACCGTCCACGAGAATTTGGCTTCAAACCCCTAGGAGAGGGATATGAAGTTG CCAAGGCACAACCTGACGCATGAACAAGACGTAAAATGACTCATTAGACACTGACAT GATAATGAAAAACCTATGAATGATGATAGACTCAGCTACTTGATGACATCGCCCCG CATTTGGACATCTTTATAAGGAGTTTAAGCAAACCCCTAGACCTACTGCCTAGTGACC AACTTTTGCTTGACGACTCACTGAAATGACAATATTTGACCTTGACACTTCAAATC ACTTTGTAGGAACCTATTTGATCACTGGAGGACGGCTGGAAGACTGACACTAACA GGACTTTATATATGCACCTCGTCTATCCGAAGTT |
| SEQ ID NO:96 | Late | LPZ-018 | AGGTGACCGTAAGCACAAGTCGTCAAATATCTCTATTCCGGCAGTAAAAACCTAT AGCTAATGATGGATCAATAGCACTAAGTGGCAGCTGGCGTACATCACTGCAATGAT AAGAACCAGTATCAACCCCATATTATCAGGAGATATCTCCACCACCTGCTGCACT ACATGTGGATCTAAGTACAGAGCCTGATCATCCTGAACACCAACAATATACGTTGAA GCTCCAGGCTTTCCACCAGCAATACCAAGACTTTGGGGAAATGTGAACGTTTCAGC AAGTGATGGTACATACCTTGGGTTGATCTTCTACACCAAGAACAAGCGGCACCA AAATCAGGATAGGCACCTTGGTCTTCCCCTTCTCCATTGGACCACTCTGAACACAGC CTCGCAGCATCATCAATGCAGATAACTGGAGTCCCTCCACGGTCACCT |
| SEQ ID NO:97 | Middle | LPZ-019 | AGGTGACCGTGAATATGGTGGGTATTTGCAGGGCAAGATTCAGGATGCTGCTCCC GGAGCTTAAGTAAGGTCTTGGACCCTAATAAATTCAGGGTATATGCATTATGTATAT GCTCTCATTAGCTGCTCATCTGATTTCCATTGGGTGAATCAGTTGTTTTGCAGTAC GTGGGGGTCTGTTTATTTTGTGAGTTTATGGTGGAGTTCATTTTGTGTTGTTT TTTCTTATCTAGGGTTTAGGGTTTTGCCCTGTAATCGGTCTTCCCCTCTCTCCTGCG CTTGAATTTGACCTGAAACCTCTTGAAGTAGGCCCTGGTTTTCTGGGCTTTGACGA AAACCATGGTTGTGGATCTCCTCTCTCCTGCTACGGTCACCT |
| SEQ ID NO:98 | Late | LPZ-020 | AGGTGACCGTCCTACTTCACCGCAGTGACTTCCATCTGGTTTTAGGAACTATCCC TAAATCCTTCACTAGTTGACGAATTGATTGACTCAAATCACTGTCGGTCAAACCCA CTCTCTCTGAAAGTGAATTCTATGAGTCTATACCCAACCCAAATCAATAGTTGAGG TAACAGTTGACCCGATTTACCTTCAACAAATCATACCTTTCCCGAAGAGAGTGAAC ATGATTCAACACAAGTTCTTTTTGGTTACCAGATTCAAATGAGCTTGGGGGTAAATC CTCCTGTTCCATCAAGACAAGAAGAAAATCCTCCCACTCTCGTAACTCAAGGGTTAA TCCTCCCATTTCTACGGTCACCT |
| SEQ ID NO:99 | Late | LPZ-022 | AGGTGACCGTCNCGGGATAGNTGGAGCCNAACAAAGTACNGAANAAANTGAANCG CNCTGGGAAGCGNGCNGAAANNTGGNCANACNTGCCCTNCACTCGGTTACCCAG CCNTTCTCTACCNANAATTATNACNNNANAGCNCCATGCTGGGTTTGTNANAAAAN AACNGCTNTTGATAAAATTACATAGANTNNGAACACGTTAAGAGGAATATGGTTCC ANATNCATTNTNAATNANNANTAAAACTNNNTATGTNCTAGNGTCNCCT |
| SEQ ID NO:100 | Late | LPZ-023 | AGGTGACCGTACAGCACAGGTATACAAATCATAGAAATGGGCTTCTGTCCAAGTGT CAGCAGAAGCGATATGAAACCCAGAAGCATCAACTCTGCTTTCAATTTTCAAGCG CTTCATATAGAGCCTTTTTATTTCTTCTGGAGAGCCAATTGCTAGCATAAATGAATAC CATGTTCAAGAAAGTAAAGAGATGACCACAAATGCCAAACAACAACTGCTACTGCC CAAGTTAGGAGTTTGTCTAGAGAACGGTCATTGCCACGGTCACCT |

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000